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NPIC/TSSG/DED-1216-68 27 May 1968

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MEMORANDUM FOR: Chief, Research & Development Branch II, DED

SUBJECT : Improved Rear Projection Screen

1. On Friday, 24 May 1968, and I attended a meeting at the Washington Office of Corning Glass Works, 1629 K Street, N.W. Corning personnel from Raleigh. North Carolina attending this meeting were:

The purpose of the meeting was to discuss certain technical details pertaining to the

of the meeting was to discuss certain technical details pertaining to the pending follow-on contract for development of an Improved Rear Projection Screen.

- 2. The first item discussed was the test results pertaining to some German-made Rear Projection Screens (Marata Disks). Corning presented a documentation of their test results on this material (Attachment 1). summarized the results obtained on a sample of this material by our Exploratory Laboratory. Although certain of the properties tested were superior to those of the best American-made screens, it was generally agreed that it was inferior in some properties. Neither Corning nor our Exploratory Laboratory had determined the Modulation Transfer Function of the German-made screens. (Exploratory Laboratory memorandum--NPIC/TSSG/TPD/EL-632-68 refers).
- further improvement in the discrete-particle type of screen. Lenticular screens showed some promise, but the cost of "drawing" the glass would increase the final price of the screen. They favored pursuing the development of a lenticular screen and wanted to know if there would be a market for a higher priced material. I stated that if the material had outstanding qualities; there was a good chance that it would be accepted even with the increased cost. However, I advised that I would talk to the appropriate authorities, determine their feelings on this subject and convey the results during my planned visit to Raleigh during mid June. Question How much will we pay for a 30" X 30" rear projection screen having truly outstanding properties?
- 4. The next subject discussed was the desire for more feedback from us relative to the systems in which this improved material would be used. Dr. Megla contended that if they could view some of the rear projection devices in operation, they might gain some additional knowledge which would be of assistance in their development effort. Too, they might be able to offer

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some constructive ideas which, if applied to the system, would enhance the end results from any new screen material. I advised that I would look into the possibility of having their personnel view some of the rear projection devices. In addition, I stated that we could probably help them toward a better understanding of the physiology of seeing by recommending the best reference material. I also noted that I was trying to schedule a meeting between them and our to discuss this subject.  5. I have checked on the various rear projection viewers available in the building. They are: Richardson #705 in IAS-contact
Richardson #706 in EL/TPD-contact ITEK in SPAD-contact
in T&E-contact been tentatively obtained to show the ITEK viewers to the Corning personnel and I anticipate no trouble in obtaining permission to demonstrate the other two.
6. My recommendations in handling the requests of Corning are:
v. My recommendations in mandring the requests or corning are.
-a. Advise them that a screen material having truly outstanding properties would be worth an increased price. (I do not believe we should quote an actual figure. We should ask them to estimate what the in- creased price would be).
b. Have accompany me on a one-day visit to Corning at Raleigh on Tuesday, 18 June, during which he could discuss the physiology of seeing and, perhaps, offer a recommended bibliography.
c. Arrange a visit for selected Corning personnel to see the rear projection viewers available here at NPIC.
7. Your comments on the above would be appreciated.
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TSSG/REDB II
Attachment: Technical Data on German-made Rear Projection Screens
Windows in the second s
Distribution: Orig - Addressee  V2 - NPIC/TSSG/DED/R&DB II files
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## TECHNICAL DATA ON SOME GERMAN-MADE REAR PROJECTION SCREENS

Туре	Axi	al Gain	· · ·	<sup>T</sup> 90 (%)	<sup>T</sup> 45 (%)	Brightness Variation ±(%)	Diffuse Reflectance (%)
D6		7		62	52	81	5.0
41-FB <sup>1</sup>		4.7		57	44	71	4.6
61-FGN <sup>2</sup>		4.6		63	50	66	4.9
D8		3.7		53	40	64	4.8
BTG-6/6		2.2		48	32	43	5.0

<sup>1</sup>Blue Tinted

<sup>&</sup>lt;sup>2</sup>Green Tinted

